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ABSTRACT

This guide was prepared to facilitate the practitioner's selection of formal tests for evaluating communicative behavior in clinical infant populations during the first year of life. Clinical instruments with particular emphasis on communication and emerging language and speech abilities were identified in terms of publishers' recommended chronological age for test administration. Tests appropriate for children between birth and 12 months were further selected from the available database, reviewed, and summarized under eight different behaviorally defined categories. These categories concerned abilities in cognition, communication, expressive language, receptive language, gross motor skills, fine motor skills, personal/social skills, and "other," or miscellaneous, skills. Extensive tables display over 60 measures or tests by title, author(s), publisher, chronological ages tested, and main behavioral areas tested. An asterisk is placed beside behavioral categories assessed by each measure. (No value judgments were made about the quality of the tests reviewed.) (Author/RH)

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Measuring Infant Communicative Abilities: A Guide to Formal Test Selection.

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ABSTRACT: This guide was prepared to facilitate the practitioner's selection of formal tests that stress the evaluation of communicative behavior in clinical infant populations during the first year of life. Clinical instruments with particular emphasis on communication and emerging language and speech abilities were identified by publishers' recommended chronological age. Tests indicating that the measure was appropriate for children between birth and 12 months were further selected from the available data base, reviewed and summarized under eight, different, behaviorally defined categories.

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Measuring Infant Communicative Abilities: A Guide to Formal Test Selection.

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Introduction:

Several themes have recently emerged from theoretical and empirical research on infant communication that hold significance for practitioners who work with infants, young children and their families. First, the infant is seen as an active participant in its own development as demonstrated by its social interaction with the primary caregiver, usually the mother. During their social interaction, mothers and infants often function as a dyadic system exhibiting communicative acts that resemble the structure of adult conversations (cf., Bateson, 1975; Bullowa, 1979; Stern, 1974). It is also suggested that from the infant's practice of, and participation in, these communicative acts with the caregiver the foundation for later language and speech is established (Bates, 1976; Bruner, 1975; Delack, 1978; Freedle & Lewis, 1977; Lock, 1978; Sugarman-Bell, 1978). Finally, during their socially interactive routines, both infant and caregiver simultaneously, or sequentially close in time, coordinate several behavioral components to signal communication (Bullowa, 1975; Stern, 1974, 1977; 1980; Tronick, 1981).

Various uses of vocalization, facial expression, smile, body movement and gaze are primary components signalling the infant's readiness to communicate. Dominant features of the caregiver's communicative act include language, speech, facial expression, gaze, touch and other kinesic behaviors that serve to attract and hold the baby's attention. Measurement of behaviors of either or both partners during the communicative act is, at best, a difficult and subjective

process that requires careful observation. To direct observations during the diagnostic process, a number of clinical instruments have been devised to measure specific behavioral repetoires as well as general developmental patterns (cf., Garwood, 1983; Johnson & Kopp, 1979). Because of the amount of formal testing material available for the 0 - 3 population, it was necessary to limit the selection of measures to those indicating that administration should be initiated at or within the first 12 months of life. Therefore, this guide was prepared to assist the practitioner in identifying useful clinical tools that assess communicative function and emerging language and speech abilities from birth to one year of age.

Measures, or tests, listed are referred to as "formal" since many, although frequently used in clinical settings, have not been standardized in the literal sense. Tests were reviewed to determine the recommended chronological ages for administration and their subtests, or main behavioral areas to be tested, were organized into eight broad categories. For purposes of this guide, behavioral definitions were developed for each of the eight categories. Cognition refers to intellectual functioning, e.g., ability to imitate, attend to appropriate stimuli, object permanence. Communication refers to all aspects of parent-child interaction including ability to initiate vocal interaction, to participate in turn-taking and to use gestures in situationally appropriate conditions. Expressive language primarily refers to those communicative prerequisites, vocally and verbally produced, that are believed to establish a foundation for later language and speech. Receptive language refers to: (1) the ability to understand and carry out commands and requests; (2) the ability to vocally, verbally and/or gesturally respond appropriately to oral language and; (3) the ability to respond to auditory stimuli indicating alerting,

localization and discrimination. Gross motor refers to the ability to manage the body and body parts relative to prone and supine positions, sitting, crawling, standing, balance and locomotion. Fine motor refers to feeding and other oral motor functions, eye-hand coordination and skills of manipulation such as grasp. Personal/social includes self-help skills and is differentiated from communication in that processes of socialization other than vocal/verbal behaviors are assessed. The 'Other' category is a miscellaneous one and covers aspects of behavior ranging from visual regard and visual pursuit to play.

After identification of measures containing communication, language and speech as major areas of behavioral assessment, the tests were alphabetized and and summarized in tabular format for quick reference. The tables display the measure, or test, by title, author(s), publisher, chronological ages tested and main behavioral areas tested. An asterisk (*) is placed in the column beside one, or some combination of, the behavioral categories to indicate primary areas of evaluation. For this review, no value judgements were made about the quality of the different tests. Rather, the listing serves to provide the practitioner base line data regarding the number and location of formal measures available for assessing communication and emerging language and speech abilities during the first 12 months of life.

References:

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Stern, D. (1977). The first relationship: Infant and mother. Cambridge: Cambridge University Press.

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Sugarman-Bell, S. (1978). Some organizational aspects of preverbal communication. In I. Markova (Ed.). The social context of language. New York: Wiley.

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Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Alpern-Boll Developmental Profile Alpern, D.G. and Boll, T.J.	Psychological Development Publications 7150 Lakeside Drive Indianapolis, IN 46278	0 - 108 mos.	*		*	*	*	*	*	
Assessment Programming Guide for Infants and Preschoolers Umansky, W.	Developmental Services, Inc. P.O. Box 1023 Columbus, IN 47201	0 - 72 mos.	*		*	*	*	*	*	
Assessment of Preterm Infants' Behavior (APIB) Als, H., Lester, B.M., Tronick, E. and Brazelton, T.B.	In H.E. Fitzgerald, B.M. Lester and M.W. Yogman (Eds.). Theory and research in behavioral pediatrics. NY: Plenum, 1982	Neonatal Period		*				*	*	*
Behavioral Development Profile Donahue, M., Montgomery, J.D., Keiser, A.F., Roeker, V.L., Smith, L.I. and Walden, M.F.	Marshalltown Project 507 East Anson Street Marshalltown, IA 50158	0 - 72 mos.			*	*	*	*	*	
Behavior Maturity Checklist II Soule, D., Bell, J. and Smith, D.	Psychology, Research and Evaluation Center O'Berry Center Goldsboro, NC 27530	0 - 96 mos.			*	*	*			

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Birth to Three Developmental Scale Bangs, T.E. and Dodson, S.	Teaching Resources Corporation 50 Pond Park Road Hingham, MA 02043	0 - 36 mos.	*	*	*	*	*	*	*	
BKR Development and Trainability Assessment Scale Bradtke, L.M., Kirkpatrick, W.J. and Rosenblatt, K.P.	BKR Educational Project P.O. Box 16986 Plantation, FL 33317	0 - 60 mos.	*		*	*	*	*	*	
Boyd Developmental Progress Scale Boyd, R.D.	Inland Counties Regional Center P.O. Box 6127 San Bernadino, CA 92408	0 - 96 mos.			*	*	*	*		*
Bridgeport Developmental Evaluation Procedure Lombardi, D.K. and Van Kirk	Easter Seal Rehabilitation Center 226 Mill Hill Avenue Bridgeport, CT 06610	0 - 36 mos.			*	*	*	*	*	
Brigance Diagnostic Inventory of Early Development Brigance, A.	Curriculum Associates, Inc. 6 Henshaw Street Woburn, MA 01801	0 - 72 mos.	*		*	*	*	*	*	
Callier- Azusa Scale Stillman, R.	Callier Center for Communication Disorders University of Texas, Dallas 1966 Inwood Road Dallas, Texas 75235	0 - 48 mos.	*		*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Children's Early Education Developmental Inventory (CEEDI) Newborg, J., Whek, L., Stock, J.R., Schenck, E.A. and McFadden, D.	U.S. Office of Education Bureau of Education for the Handicapped Washington, D.C. 20202	0 - 96 mos.	*		*	*	*	*	*	
Communication Evaluation Chart Anderson, R.M., Miles, M. and Matheny, P.A.	Educator's Publishing Service, Inc. 1225 East 60th Street Chicago, IL 60637	0 - 60 mos.		*	*	*				
Curriculum and Monitoring System Castro, G.	Glendon Castro MAPPS Project Exceptional Child Center Utah State University Logan, UT 84322	0 - 60 mos.			*	*	*	*	*	
Delco-Elfman Developmental Achievement Test Elfam, R.M.	Delaware County Intermediate Unit State Building 6th and Olive Streets Media, PA 19063	6 mos. - 72 mos.	*		*	*	*	*	*	
Denver Developmental Screening Test (DDST) Frankenburg, W.K., Fandal, A.W., Sciarillo, W. and Burgess, D.	Ladoca Project and Publishing Foundation East 51st Street and Lincoln Denver, CO 80216	0 - 72 mos.			*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Developmental Checklist	Special Education Department University of Pittsburgh Pittsburgh, PA 15261	1 mo. - 60 mos.	*		*	*	*	*	*	*
Developmental Checklist for Visually Impaired Boston Center for Blind Children	Mae Upperman, Executive Director Boston Center for Blind Children 147 S. Huntington Avenue Boston, MA 02130	12 mos. - 96 mos			*	*	*	*	*	*
Developmental Guidelines Karnes, M.B.	Institute for Child Behavior and Development University of Illinois 403 E, Healey Street Urbanan, IL 61801	0 - 23 mos.	*		*	*	*	*	*	*
Developmental Progression in Play Behavior Largo, R.H. and Howard, J.A.	Developmental progression in play behavior of children between nine months and thirty months: Spontaneous play and imitation. Developmental Medicine and Neurology. 1979, 21. 299-310.	9 mos. - 30 mos.								*
Early Intervention Developmental Profile Rogers, S.J., D'Eugenio, D.B., Brown, S.L., Donovan, C.M. and Lynch	University of Michigan Publications Distribution Service 615 East University Street Ann Arbor, MI 48109		*		*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Early Language Assessment Scale Parts I and II Honig, A.S. and Coldwell, B.M.	Family Development Research Program Children's Center 100 Walnut Place Syracuse, NY 13210	6 mos. - 36 mos.		*	*	*				
Early Learning Accomplishment Profile for Developmentally Young Children Gover, M.E., Preminger, J.L. and Sanford, A.R.	Kaplan Press 600 Jamestown Road Winston-Salem, NC 27103	0 - 36 mos.			*	*	*	*	*	
EMI Assessment Scale Elder, W.B.	Education for Multihandicapped Infants Box 232 Charlottesville, VA 22901	0 - 24 mos.	*		*	*	*	*	*	
Environmental Language Inventory MacDonald, J.D.	Charles E. Merrill Co. 1300 Alum Creek Drive Box 508 Columbus, OH 43216	one word and two word utterance level		*	*	*			*	*
Environmental Prelanguage Battery Horstmeier, D. and MacDonald, J.D.	Charles E. Merrill Co. 1300 Alum Creek Drive Box 508 Columbus, OH 43216	6 mos. - 24 mos. Preschool or language delayed individual of any age who functions at or below one word level		*	*	*	*	*	*	*

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Functional Profile Peoria Association for Retarded Citizens	Constance Smiley United Cerebral Palsy 913 North Western Avenue Peoria, IL 61604	0 - 72 mos.			*	*	*	*	*	
Gesell Developmental Schedules Gesselli, A. and Armatruda, C.S.	Psychological Corporation 1327 Peachtree Street Atlanta, Georgia 30309	0 - 36 mos.			*	*	*	*	*	
Home observation for Measurement of the Environment Caldwell, B. Heider, J. and Kaplan, B.	University of Arkansas Center for Early Development and Education Little Rock, AR	0 - 36 mos.		*					*	*
The Houston Test for Language Development Crabtree, M.	Houston Test Company P.O. Box 35152 Houston, TX 77035	6 mos. - 36 mos.			*	*	*	*	*	*
Individual Assessment Franhouser, G. , Fazio, J., Giesseman, N., Hailey, J., Hering, S. and Oliver, A.	Circle Preschool 9 Lake Avenue Piedmont, CA 04611	6 mos. - 60 mos.	*		*	*	*	*	*	
Initial Communication Process Scale	Publishers Test Service A Service of CTB/McGraw-Hill 2500 Garden Road Monterey, CA 93940	0 - 36 mos.		*	*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Infant-Parent Training Program Checklist Drezek, W.	Infant-Parent Training Program 1226 East 9th Street Austin, TX 78701	0 - 12 mos.	*		*	*	*	*	*	
Informal Teacher Assessment Instrument Drezek, W.	Infant-Parent Training Program 1226 East 9th Street Austin, TX 78701	0 - 72 mos.	*		*	*	*	*		
Kates Preschool Assessment Scales Taylor, B.	Children's Developmental Services Casa Colina Hospital 255 East Bonita Avenue Pomona, CA 91767	10 mos. - 72 mos	*		*	*	*	*	*	*
Kent Infant Development Scale Reuter, J. and Katloff, L.	KID Scale First Chance Project 252 Lowry Hall Kent State University Kent, OH 44242	0 - 12 mos.	*		*	*	*	*	*	
KNI Developmental Scale Kansas Neurological Institute	Pyschology Department Kansas Neurological Institute 3107 West 21st Street Topeka, KA 66604	0 - 60 mos.			*	*	*		*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Koontz Child Developmental Program Koontz, C.W.	Western Psychological Services 12031 Wilshire Boulevard Los Angeles, CA 90025	1 mo. - 48 mos.			*	*	*	*	*	
Learning Accomplishment Profile for Infants	Kaplan School Supply Corp. 600 Jonestown Road Winston-Salem, NC 27103	0 - 36 mos.	*		*	*	*	*	*	*
Lexington Developmental Scales United Cerebral Palsy of the Bluegrass	Child Development Centers of U.C.P.B. 465 Springhill Drive Lexington, KY 40503	0 - 72 mos.	*		*	*	*	*	*	
Manual for Testing the Language Ability of 1 to 3 year old children Marmour, J. and Constable, E.	Laboratory of Human Development Harvard University Graduate School of Education Cambridge, MA 02138	12 mos. - 36 mos			*	*				
Memphis Comprehensive Developmental Scale Quick, A.D., Little, T.L. and Campbell, A.A.	Fearon Publishers 6 Davis Drive Belmont, CA 94002	0 - 60 mos.	*		*	*	*	*	*	
Minnesota Child Development Inventory Ireton, H. and Thwing, E.	Behavior Science Systems 5701 Hawkes Terrace Minneapolis, MN 55436	12 mos. - 72 mos			*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Minnesota Infant Development Inventory Ireton, H. and Thwing, E.	Harold Ireton Dept. of Family Service 6-240 Phillips-Wagensteed Bldg. 516 Delaware Street, S.E. Box 381 Minneapolis, MN 55455	0 - 15 mos.			*	*	*	*	*	
Neonatal Behavior Assessment Scale Brazelton, T.B.	Clinics in Developmental Medicine No. 50, London: William Heinemann, 1973	Neonatal Period		*			*		*	*
Oliver: Parental Administered Communication Inventory MacDonald, J.D.	Charles E. Merrill 1300 Alum Creek Drive Box 508 Columbus, OH 43216	All who have to develop age appropriate verbal and nonverbal communication		*						
Ordinal Scales of Psychological Development Uzgiris, I.C. and McV. Hunt, J.	University of Illinois Press Urbana, IL 61801	1 mo. - 24 mo.	*		*	*	*	*	*	
Oregon Project for Visually Impaired and Blind Preschool Children Brown, D. Simmons, V. and Methuin, J.	Revised Edition Jackson County Service District Medford, OR 97501	0 - 72 mos.	*		*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Performance Objectives for Preschool Children Schirmer, G.J.	Adapt Press, Inc. 808 West Avenue North Sioux Falls, SD	0 - 72 mos.	*		*	*	*	*	*	
Portage Guide to Early Education Bluma, S.M., Shearer, M.S., Frohman, A.H. and Hilliard, J.M.	Portage Project Cooperative Educational Service Agency 12 412 East Slifer Street Portage, WI 53901	0 - 72 mos.	*		*	*	*	*	*	
Preschool Attainment Record Doll, E.	American Guidance Service Publisher's Building Circle Pines, MN 55014	0 - 84 mos. or 6 mos. - 84 mos.	*		*	*	*	*	*	
Preschool Profile Lynch, L.L. and O'Conor, M.R.	Experimental Education Unit University of Washington Seattle, Washington 98195	0 - 72 mos.	*		*	*	*	*	*	
Programmatic Guide for Assessing Severely/Profoundly Handicapped Children Crebo, B. and Heifetz, J.	Experimental Education Unit University of Washington Seattle, Washington 98195	0 - 72 mos.	*		*	*	*	*		
Pupil Progress Evaluation Plan Panhandle Child Development Association	Panhandle Child Development Association 421 1/2 Sherman Avenue Cour D'Alene, ID 83815	0 - 72 mos.	*		*	*	*	*	*	

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Receptive-Expressive Emergent Language(REEL) Bzoch, K. and League, R.	University Park Press 233 East Redwood Street Baltimore, MD 21202	0 - 36 mos.			*	*	*		*	*
Receptive-Expressive Language Assessment for Visually Impaired Graham, S.	Shirley Graham Ingham Intermediate School District 2630 Houell Road Mason, MI 48854	0 - 72 mos.			*	*			*	
Reynell Developmental Language Scales Reynell, J.K.	NFER Publishing Co. Darville House 2 Oxford Road East Windsor SL4 IDF ENGLAND	12 mos. - 72 mos.			*	*				
Rockford Infant Development Evaluation Scales Project RHISE, Rockford, IL	Scholastic Testing Service, Inc. 480 Meyer Road Bensenville, IL 60106	0 - 48 mos.			*	*	*	*	*	
SEEC Miniwheel and Maxiwheel of Developmental Milestones Seanson, J.E.	Early Childhood Education 804 West Bode Road Schaumburg, IL 60194	0 - 60 mos.	*		*		*	*	*	
Sequenced Inventory of Communication Development (SICD)	University of Washington Press Box 5569 Seattle, WA 98195	4 mos. - 48 mos.	*	*	*	*				

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Sewall Early Education Developmental Profiles Herst, J., Wolfe, S., Jorgensen, G. and Pollan, S.	SEED Program Sewall Rehabilitation Center 1360 Vine Denver, CO 80206	1 mo. - 48 mos.	*		*	*	*	*	*	
Symbolic Play levels McCune-Nicolich, L. and Carroll, S.	Development of symbolic play implications for the language specialist. Topics in Language Disorders, 1981, 2(1), 1-15	9 mos. - 30 mos.	*							*
Telstar Developmental Checklist Wozniak, V., Miller, T., Cook, P. and Authier, G.	Alpena-Montgomery-Alcona Intermediate School District 1691 M-32 West Alpena, MI 49707	0 - 60 mos.	*		*	*	*	*	*	
Uniform Performance Assessment System White, O., Edgar, E. and Haring, N.G.	Experimental Education Unit University of Washington Seattle, WA 98195	0 - 72 mos.	*		*	*	*		*	
Verbal Language Development Scale Mecham, M.J.	American Guidance Service, Inc. Publisher's Building Circle Pines, MN 55014	0 - 192 mos.			*	*				

SELECTED TESTS WITH PRIMARY FOCUS ON COGNITIVE ABILITIES

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested: Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Albert Einstein Scales of Sensorimotor Development Corman, H.H. and Escalona, S.K.	Albert Einstein College of Medicine Child Development Project 1165 Morris Park Avenue Bronx, NY 10461	1 mo. - 24 mos.								
Bayley Scales of Infant Development Bayley, N.	Psychological Corporation 1327 Peachtree Street Atlanta, GA 30309	1 mo. - 30 mos.								
Cattell Infant Intelligence Scale Cattell, P.	Psychological Corporation 1327 Peachtree Street Atlanta, GA 30309	2 mos. - 30 mos.								
Cognitive Observation Guide Mosey, A.C., Foley, G.M., Klett, S., Meloy, D., Creevey, D. and Parco, L.G.	Family Centered Resource Project 3010 St. Lawrence Avenue Reading, PA 19606	0 - 24 mos.								
Developmental Activities Screening Inventory DuBose, R.F. and Langley, M.B.	Teaching Resources Corp. 50 Pond Park Road Hingham, MA 02043	6 mos. - 60 mos.								
Griffiths' Mental Development Scale Griffiths, R.	Western Psychological Services 12031 Wilshire Boulevard Los Angeles, CA 90025	0 - 24 mos.								
The abilities of children Griffiths, R.	Western Psychological Services 12031 Wilshire Boulevard Los Angeles, CA 90025	0 - 96 mos.								

Measure	Publisher	Ages Tested	Main Behvioral Areas Tested							
			Cognition	Communication	Expressive Lang.	Receptive Lang.	Gross Motor	Fine Motor	Pers./Soc.	Other
Infant Behavior Record (Component of the Bayley Scales of Infant Development) Bayley, N.	Psychological Corporation 1327 Peachtree Street Atlanta, GA 30309									
Infant Cognitive Development Scale Mehragian, A. and Williams, M.	Piagetian measures of cognitive development for children up to age two. Journal of Psycho-linguistic Research. 1971, 1, 113-126.	4 mos. - 20 mos.								
Kahn Intelligence Test Kahn, T.C.	Psychological Test Specialists P.O. Box 1441 Missoula, MT 59801	12 mos. - adult								